Pocket Notebook
PN 22-01-24 (1922)

This notebook dates from January - June 1922. The pocket notebook contains notes by Thomas A. Edison relating to experiments with chemicals, chalk, phonograph record masters, Ford starter batteries, reproducers and Ediphones. The notebook was originally found at Glenmont.

800
200
1600
6
9600

4000
24-

370
3.
1110

27 | 960000 | 3555
81
150
135
150

400
400
1200
1205
6000

10,000 Cubic yards
10000 | 11
370 | 35500
18
810
1900
1890
10
2840
355
639

370
15
1850
370
5550
7000
24

EDIS 11.03HO

PN-22-01-24

110.2HO

#3246

110,240

Cost of single Hardware call
Labor + Material only
No overhead 35 cents

16 Cellcrete steps to
shop Labor 2.96
Material 4.20
Total 7.16

$25. pretty good - novelty
flash

Old tune 8326
8324 - fair to good

Length 1 car room
21 X 120

Has gutter 240' long
21 wide

Old Committees to
decide Dance wagging
Low down Stiff
Edison as Umpire

A new Committee to
be formed
Jae
Charles E
Dykeman
Simpson
Falconer
Broadhead
Meakoff
& Umpires
to Decide on good
Class of Music

Carter Required on 1 2 3 4.
5 + 6 Varnish machine
1 girl to see which is best
suited to use on my
Truss Schedule

1 Hour Product

1	Mach	84	= 84	Maximum
2	"	153	69	
3	"	212	59	
4	"	262	50	
5	"	305	43	Limit
6	"	324	19	

Dawning to new Excise law
on Product & Records
Amberola 30 — .88 cents
50 1.37
75 2.25
Hepplewhite — 2.90
Sheraton — 3.38
Chippendale 4.40
Louis XV 6.00
C 450 Adam 9.92
Dese 3 Cents
Amberola 1 Cent

Examination under Micro of Subsbluber for Chalk

Kirschyhm febros very fine in size
Silicon 400 Mesh finer than chalk
Chena Clay finer than chalk
Fibrous Magnesium Silicate
3 or 4 kinds Coarser than Clay. has some Larger pieces probably ground in a Mill
Rotten Stone 3 to 4 times finer than Clay - ground in Mill

Placiles Pores too Coarse
Stone Ware - nodules, 20 mesh smooth when with pressure of finger to as fine as Chena Clay or finer

Chalk not as fine as Chena Clay or Silicon 400 mesh -

Silicon 400 — Rotten Stone Little finer, will answer probably

Get floated Barytes

Sloane Manganese
OK for a 2nd side - as a special

Manny Lore
not good tone, harsh in spots, Melody poor
I wouldn't Care for this dont think it would sell - Could be held for future development if records are good

8333. 2nd class. For Trial. Unenforced not as good Melody. Confusing sounds not sharp or distinct. Might do as 2nd

8332 Ottenlich Mountain ~~Fox~~ Trot 2nd Class No melody has Xylo which adds it as a 2nd ~~from~~ repeat

Hear Mary Clarke
Voice Trickle - Organ

Floated Bayonets
Daily grinding 67%
Uhrig 180 mesh
~~not very good~~ surface
615 grams - Load 2 and 3 - Van b[illegible]. Varnish perfect clinch

Pumice alone
Daily grinding 2 hrs
72% Uhrig 180 Mesh
good surface
Fair for Moore
3 printed 3 OK
perfect Varnish clinch

Rollers alone 3 ft
73 Uhrig 180 Daily grinding 2 hours 4 records, all OK - Surface looked thin Pumice Varnish perfect clinch
Best of these 3 as pumice
None of the 3 showed any crack as of 1st Coat like Reg Blank
Varnish clinch poor on Regular Compared to these 3 -

Weights of above 3 is
Bayonets 615 grms
Pumice 475
Rollerstone 445

Rollers Dropped 10 times

Drop test Pumice
1 - went twice at 4 ft
1 " 5 times at 4

Using different powders instead of Chalk with wood flour & Rosin —

It is clear that the surface improves when more Chalk is used & less wood.

With 4 wood 3 China clay & only 68% thru 180 after ground in Bally-Roor mill the surface is very good better than with Chalk 88% thru 180 —

If now 1/4 less China Clay is used wood flour increased to have some proportion — The surface becomes poorer & when only 1/2 of Clay used the surface is horrible

If the mix was ground 88% thru 180 then normal surface well improves

But China clay does not give a good clinging surface — to Varnish & has no discards but when pumice alone used the 4-3-1 gives a pretty good surface, when 1/2% thru 180 & Clinch of Varnish is perfect.

Same way with Barytes alone but surface not as good as Pumice — which also has a perfect cling of Varnish

believe these two can when proportioned & ground 88% thru 180 give a very fine surface

Quartz washed out by flooding the Rotten stone + about 1/10th is coarse + considerably less than width of Mesh. Its already been floated

Felspare shows residue under than Pumice groove. Felspare from Trentino — large part is very fine float like Chalk

Pumice is mostly very Coarse, residue some 2 To 2½ times larger than pumice groove + clean of fine float. which clings to Felspare.

As both Rotten stone & Pumice the Varnish clings powerfully.

It is a question of Surface & proportions between them,

So we can confine our Experiments to Pumice & Rotten stone —

But Pumice is very large — To get comparable Results our Pumice should be ground as fine as Rotten stone

Infer that there is a Considerable residue of Pumice Caught on 100 Mesh screen 1·2 times larger than pumice groove

Wambert on Valuing the patents of Ford why not state the Cost of Experimenting + apparatus necessary to put the patents in Operation -

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2 things we must do when we record using phone -

1st attachment so records put on in the dark

2nd if possible so record lifted off the Turn table easily

3 auto stop when End of records

4 - all records grooved

8336

Dark Town Rehearsal not good enough for a special push for Reg Rec

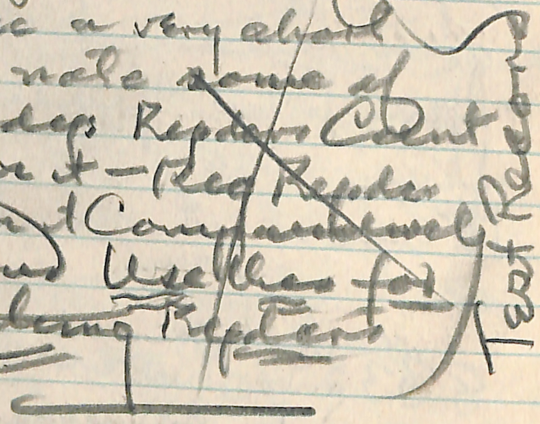
Typed. passed as flash good music. not Valuable Jene Tune Wonder time - no dis violin to Spoil it as I can see

8338 - Three days are very good music Valuable - no musical interference good Record as flash

The Sheik - no musical value, Wy worthless Monotonous, jew push ~~Top Trick~~,

80678

Prelude Imalem + Inside End of 1st Strain of Music a very short high note some of Bandeys Regulars Count hear it - Red Regular Heard Communicated loud Useless for Looking Regulars



See if may Who wrote: The Music Notes for us Count Take Keeps Place -

Masters should not be polished but only cleaned with fresh, old Masters - if Chatter marks are polished away bring out black spots + holes The whole of the polishing should be done on females

Pull on 2 mills to keep in orbit

3.200 000 000 000 000 000 Tons

Pieces of Nickel adhering to a Master Can be removed by immersing in 20% Sol H_2SO_4 at 160°F for 5 to 10 hours

Search made on Ford Motor Patent ofs - Handy -

Rep Use lead wire
Ton mould holders
again - We dont use
Legend now art will
probably work fish hims

Bliders - Investigate
Born & possibly not
Enough stuff baked
out

Jann 24 Schedule on
print previous
4½ mm Coal at
2 " Low 135 lbs
8 " High 1000 lb
5½ Coal

just as
get good results
with 2 Coal at
2 Low
8 High
5½ Coal

Kiruna Expts 6/4
Dec 29

Reg 4% 6/4
6.1% Blisters
12¼ Pull Outs } 18.5

4.9 6/4 Reg

3.8% Blisters
4.4% PO } 8.2%

15% 6/4

0 no PO
1 7/8% Blisters 1.7/8

Sleepy little V. Range
"Flash" A1 Flash
passed

Dope 8/10

7.36 grms Sleeve Kg
2000 cc DE Methanol
Alcohol - 3.8 grms
per liter -

Found that Leyland tune
for Piano from Norma
perhaps it might another
name Like Leyland;
We have Vol 2 get Vol 1
it may be in that -

8348

Regular Megnalomm
Top trad, Melodrama
Nothing new -
Might do as 2nd
all trebs

8347 - Medley Fox T
musical -
all trebs -
Slightly new - 2nd if
Cleard get an A1

Cheapest K2O before
war 2.75 lb.
55@57c cent 30 lbs

8351 –

Plenty of decent
ok good depth
Value – fairly
Nuanced but
brassy –

Turned At
Work

8352 about
same as 8351
good depth Value
& Nuanced
little Brassy in
Melody part
Work

both have quarter
step & what 1/2
want – The crescent
is better on 8351
being louder
whereas 8352
Has louder treble
& less Crescent

Turned At Work

1.3	Lbs Gauge Press	216° Fahr
2.3	"	219
3.3		222
4.3		225
5.3		228 –
6.3		230
7.3		233

In the Groups we have 873 Records
Year ago we had printed
1436 Records.
Since then 225 yearly

Make wrong test Vic
Brownwick with
Clearing

Full Records

Edison	10"	4 min	39½ sec
Vic	12	4"	10 sec
Vic	10	2 "	52 sec

7 Feby 2/22 14560 prints
inspected -

Spots	3.3%
P Prints	5.7%
Veneer PO + Blisters	7.7%

3968 Total Lost 76.4% OK 76.4

After Prod process OK
Take hold blank press
& find the Constant steam
pressure that will make
blanks record at a certain
temp than set.

Schramka Uses 10 grms Spod
or Telepor + 5 grms Soda
Caustic lime per test

Columbia grafonola

47 million 1920 19 million 1921

8355

Rotten no way to do for Order type and a flash no time no need —

8356

No time, Courtney on order not a flash —

Oxygen at Mussel Sh can be obtained if N abstracted for high temp blast furnace for Thermoforming etc or for Acetylene Welding of some article where cost owing to the principal Cost. (Food)

Anson G Batt, Chem Engr

Jamming say Oxygen can be made $2. per ton.

Matheuson Paty Keller in 24 — Set rate for piecework coalhouse any sense Upstairs pretzemen making 63 cents hour

Outrageous

Feby 7/1922

New idea - The schedule around 200 to 230 Fahr gives 95% ok records but remarkable thing about it is that there is no poor print

Think I can explain this & its new at above temperatures Rosen is soft & can be pulled out in threads.

The fibres are all coated with it & the blank will flow.

OK - but if temp is too high Rosen melts to thin liquid runs in between fibres & they touch & the freedom is so great blank does not flow & so shows poor prints -

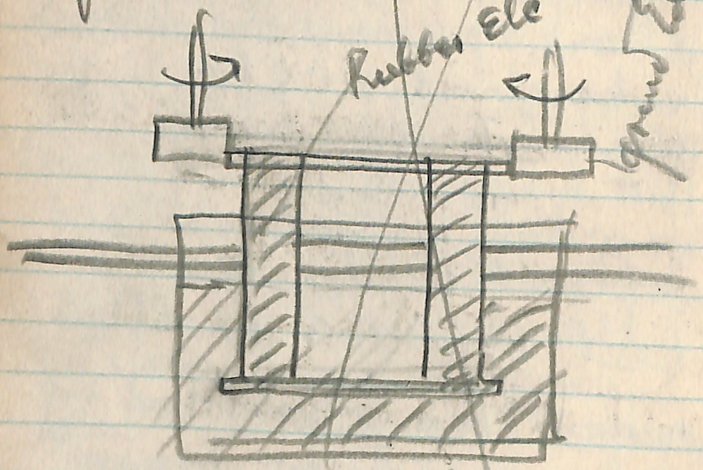
The whole thing is to soften blank around 200° Fahr 3 min Contact & 2 min low - then sock on 1000 lbs & put steam on

The steam rises rapidly & at the point where rosen acts as a lubricant & before melting of rosin the blank has flowed & is OK & then it afterwards melts but it dont matter now the Blanco is OK & no poor print possibly if Combin with the Calcite takes place

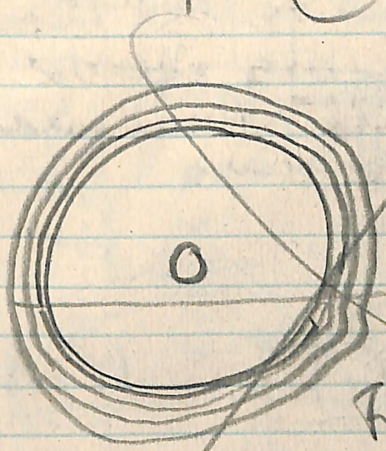
at high temp it dont when rosen is viscous clage + we get the flow before rosen has melted + rumbled with the lime

Feby 7 (1922

Ford Starter Nickel film Drum

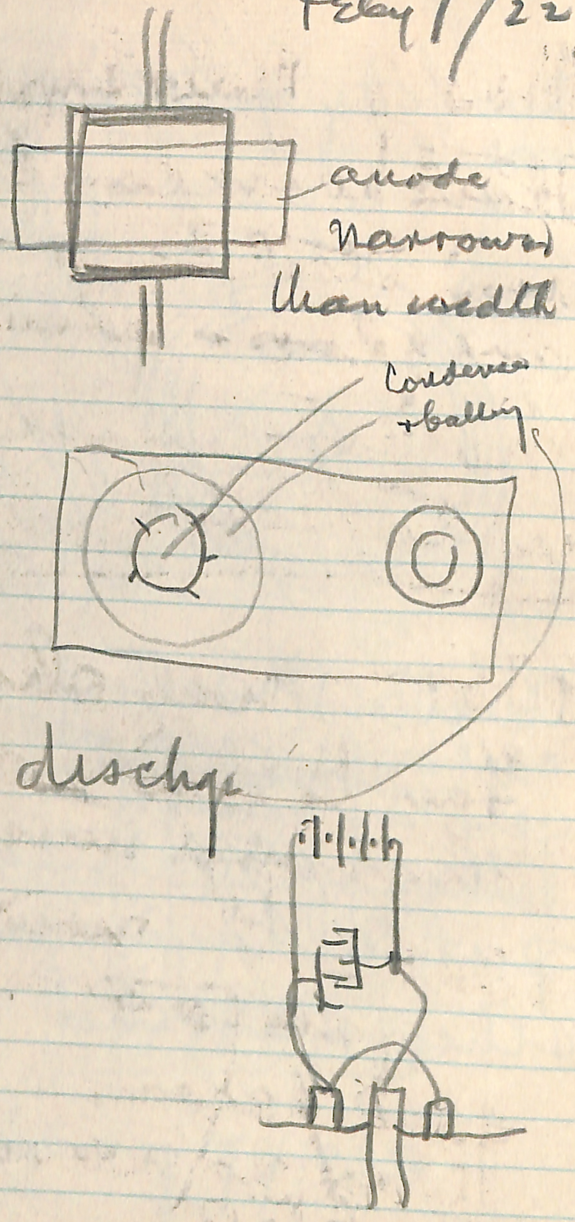


Feby 7 (1922



Unwind - Sel on outside keep on till gets too rough - Then cf 092. can put 20 layers on & then unwind

Feby 7/22



M+S 3 Mill + Supply
Stock house can be
used Steel beams —
3rd floor — also
no beam spaces
up to 5 ans will use

8360 — new show
Hard to get good mod
much of a tone

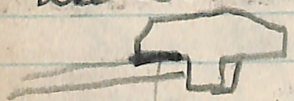
8361 — new show
fair to good
good decay quality
Clear no interference
tone F to G

8363 A1 ~~Foods~~

~~8762 Bakelite~~

Try fish line soaked in Condensite Varnish warm & then Baked, then used to pack mould holders

Paint mould ring inside & Bake use Condensite Varnish



Celluloid painted, dried, Rubber dope

Peachy rings

Moulded Eg

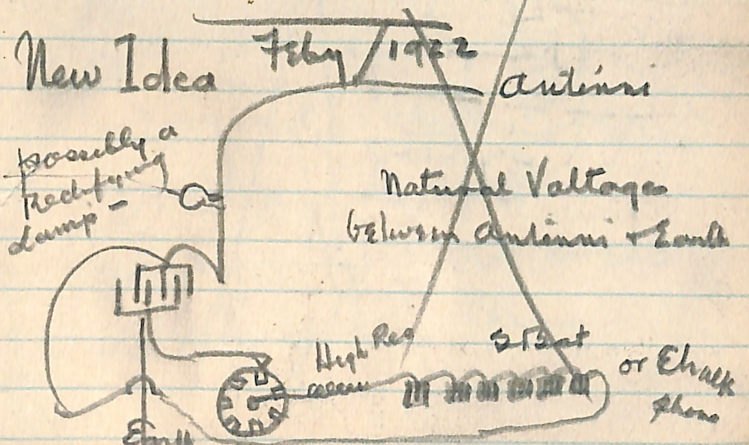
1.00

get name of man in power & Maintenance Dept who discovered the bent Columns 5th along #24 Bldg

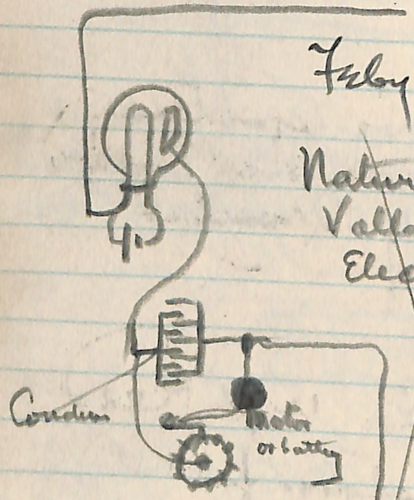
Maybe good inspector what's doing

Room - as fairly playable at 125°F. It begins to soften at about 105 melt 155 @ 160

New Idea Feby 1932



See if Certain types of Needle Machines can be altered over to Edison Cabinets + under what Scheme can they be sold + How much allowances on Exchange Proposition



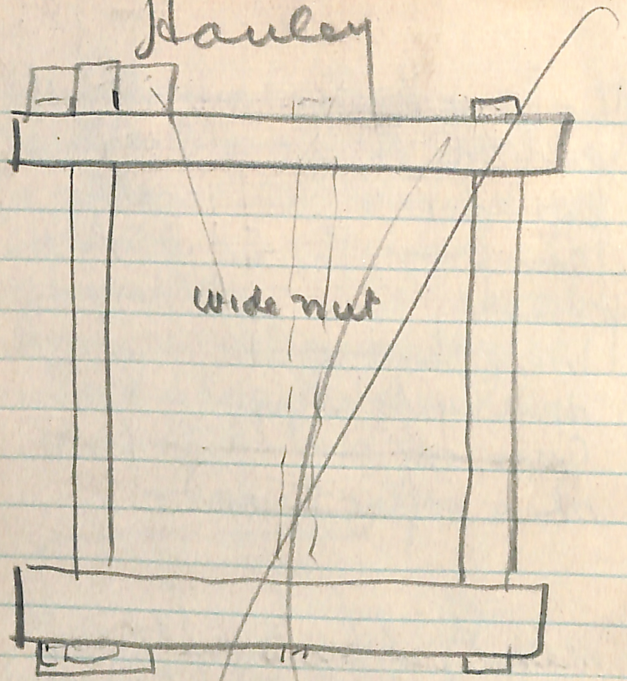
Feby 1922

Natural Earth Voltage Electron bombardment

Make a Reproducer which will be ½ the present loudness + that will suppress the Scratch - possibly the scratch is so high that a Weight on diaphragm will suppress it - Can use slide light lever also soften Rubber -

See Gibbs Spalding Machine not good planing Machine not used -

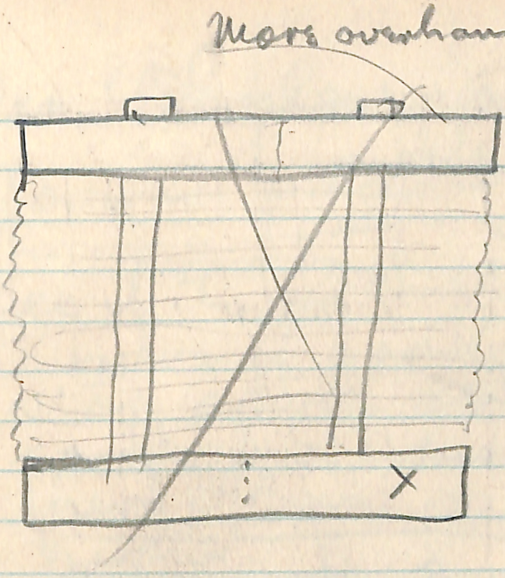
Cronkite used Reed Orchestra for singing + as well as Vaudeville Trio



perhaps a Center Bolt

To stop Cambering in Center

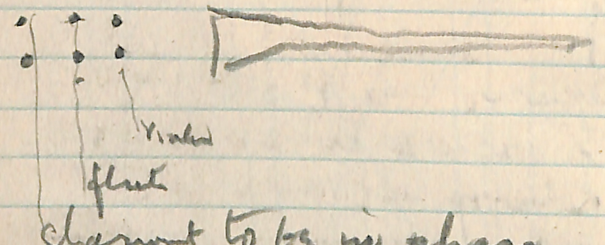
or divide thus



Same as now but Case hard X or use crucible steel as stiffn-

figure out length of funnel that will give same opening without a flare as with present flare also get the angle used at Kent be a little steeper + also 10 ft with a 10 to 12 ft flare so less muffle

possibly placing same instrument same distance

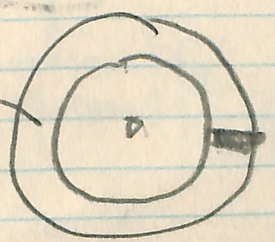


Put Edyphone in hands of Payne to design + make salary increase Equal to what year he lost from Government 8 per week if he get 40 make it 50,

See Whalen about Governor pads →

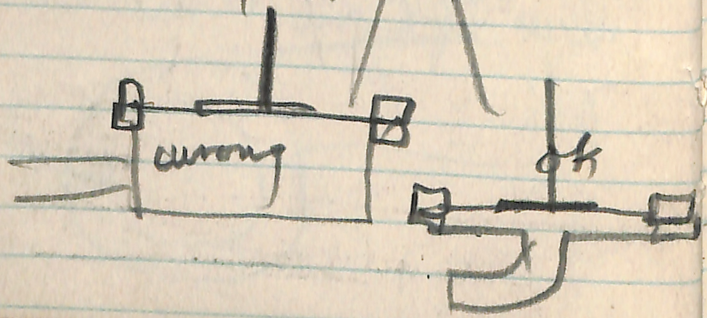
See if its possible to have a possible drop above 85 so if governor reaches there it can't go higher,

To Time Old phonos paint a white spot on the felt of platter see if can time it OK

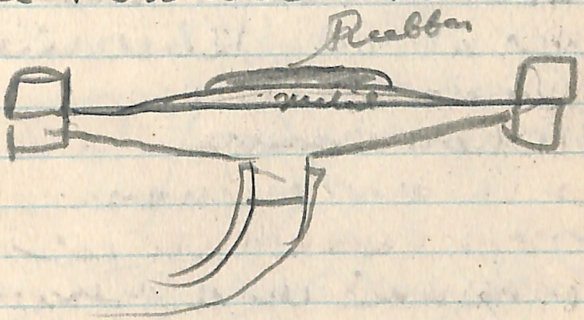


When new pressure pump
all plastic must be
ground off on face
+ hardened steel to
put on Ejector
When Started a test
is to given Inspector
+ no deposit is to
be made with pressure

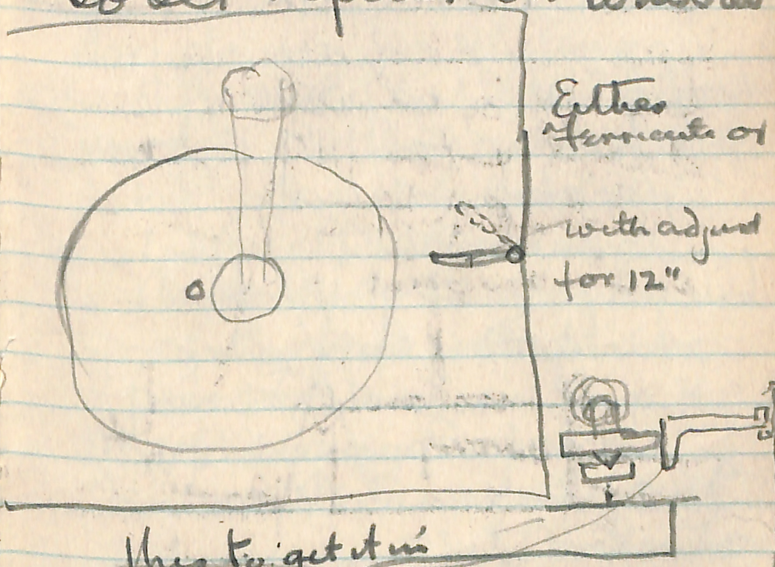
The Tromp or Edgehan
has probably too
large a chamber in
depth + for amplitude
probably too great
a deamplitude



for reading think
should have considerable
dia + small Chamber



To set Repder on Consoles



See Taylor + inform him of absolute necessity of Have Customers Machines set at 60, talk Walters Caster + all Herman + show how

Pick out some of the old recorded stuff

Moore 1920 4000 1921 1000 in June

Started Dec 19
62 days sold 19 phonos
Orange Ohaeus
to date Feby 22 1922
practically 3 men
2 good 1 slow none
4 good men should have sold 4 as good as best
2 men - 2 30 machines

Try wear test before + after Cleaning with Alcohol without dope + clean fresh Rag

See if Kurlon dedust use Harris rag to clean +

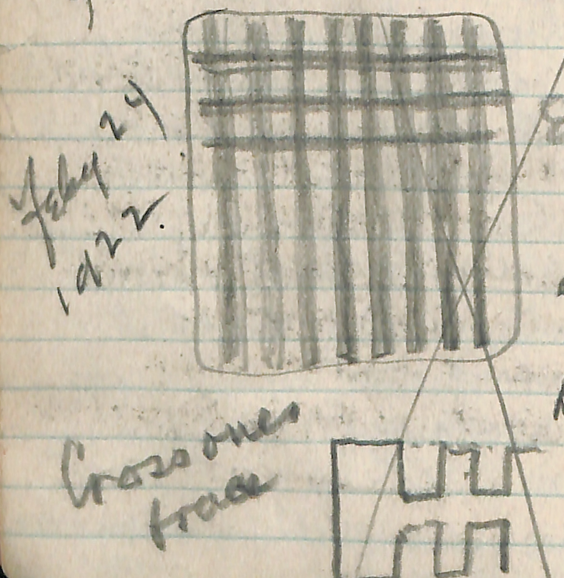
Feby 23 - 1922

Try drum for plating sheet Nickel for 2 and 4 Coats Grafite drum, pressed up also 7 & S, Cast drum Polished Antimony drum - Ni Selinide Cast. on pressed - Grafite mixed with binder + pressed hot Magnesium Drum -
Try on strips at first Try regular Nail Caubon Co Caubon baked over

Dry lead, Tin, ~~Zinc~~,
but both may hurt both from
acetic acid

I think we can use Reg
Ni flake drum + put
on 20 to 50 layers
Cut to size + design
out Copper for Ford
battery

gives more than double service



Advertising Expenses + Sales

1915	$113 000	Sales	~~Marketing~~
1916	225 000	"	75 000
1917	281 000		79 000
1918	160 000		70 000
1919	475 000		123 000
1920	1.136 000		142 000
1921	572 000		33 000

Local Mac Jobber Chuta
List 600 45% to jobber
30 dealer jobber deals
want to add not a
local Repair man
80 cents hour for Repair

Jarvis Disc 300 000 Records

Labor Mfg + Maintenance	48 800.
Material in production	18 800
Steam without freight chgs	5 216
Water	2.234
Electricity	4 903
Factory Supplies	3. 750
Stationery - Non durable	
Tools, trucking freight	
Supplies Lab & Power $	2,120
Gas & air	
Repairs on Equipment	5. 523
Fixed chgs -	
Depreciation	12 000
Rent	4 334
Interest on Investment	5 041
Insurance	2 053
Inventory adjustment	3000
Powers fixed chg	5 847
Administration chg	2 708

Thesco 16.21 per print
" 6.20 "
" 1.73 "
" 0.74
" 1.68
" 1.25

0.74

1.84

30.52 Cost of a print

cent	
4.00	
1.40	off
1 68	off
0.68	
1.00	
1 94	
0.90	
11.69	

Really only 5.92 ~~3.6 Cost~~ should go on Cost.

34.12
36 cents Coors it

36

0 2½ OK Discount 38.22

Cast gaskets ~~of~~ Peachy
Rubber for ~~round~~ Hayden
L. Ott.

Reclaimed flake from old
dried turbs by ~~Brumfield~~
~~same as~~ his process

after 16 Hot 1223 Short
tubes

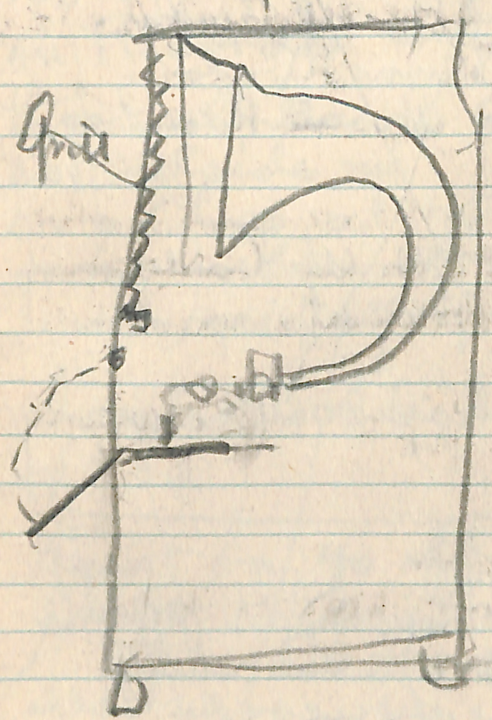
3rd run cold
1060 — 1103 1143

after 10 hot
1207 1240 1247

Feeds bad, Ihes will be OK
as well as only use 10%
with new.

Reclaimed hydrate
only 950 @ 1043
must be dissolved

Super Rhenus



Get a man to clean
fining General Clock
House, a ~~re~~ mechanic

7 Feby Inspection

North Hand Russell Burke
Mantz — J Burns Mouton
Woodfen Harnell Rosenberg
Heald

Taylor — Waller Carter
Mackey Mouat.

Aron Shapiro Manning

Orange system
Sells 4 Chippendales Month
Receives $120 advance shuffle
134 boxes of records sells
134 Records —
For Records received $40-
Collects from 4 machines
1st Each Receives 6.40

Total 120 advance
40 on Report
6.40 on Collections
41.60 weekly 166.40 monthly

Orange showed 62 a
45 off on Machines & 40
on Records - see Halsey
this will raise Commission
to Outside men
on a Chip at 45% off
from Jobber Dealer
will get $67 + furnish Ford

Agent gets $65.20 instead
of 53.

Agent on 40 off from
Jobber to dealer gets
53 + Dealer 65

Now way 45 off Agent
gets 65.20 dealer 67-

Lubs Pins showed 62
280 - Records are
or showed 62 285

Coal Costs at Orange
$5.92 - 2000 lbs -

Of the 4000 odd names of owners Adacy said he had from NY sales which he mails & Lend by long cord 138, with 14 names on only 206 live in NY Brooklyn & the Bronx -
or 2000 really live in NY Brooklyn & Bronx.

Total sales 5 months all records

1.292 000

421 300 dance Records.

Dance Records 33 1/3 %

Del Gibbs & see if he can put Repealing device on Loudphone Superphone

Consider Loaning a Vic own an Edison Repeat & make him member of Club get Cost Repeat

Whalen get device for
lock governors on
Orange & other Reproducers

100 000 Piano & Player Pianos
made - pre war 30% d/d

Reg Records Harvey Dept
show visible wear 3 times
over plain Alcohol
average 150 with 8/10
Alcohol - not enough for
everlasting records

Why cant we use
3 men on table
instead of 5. for
get 93 @ 95%. Oho

Perhaps a Celanese ACA could
be made with sheet Zinc &
Copper OX asbestos using
Copper foil + Zn flour
or sheet Zinc shell just
Like Edison Ford Starter
is made Mch 1 1922

Bug delay Returning
owners & dealers in
Exchanging Reproducers
Stupid system
fix at N. Told Charles

Edyphone order
$150 Mica dia
Cut —

Paste Label giving description on two Red cards using Envelope - ask Paulin -

Victor record .090 thick -

Harry Barnes/ asked by Bailey as good man to collect for Grandclock house

Later will also Recommend a man

101 400 blanks
97 551 OK

Salary 247.
Mix Grind 69
Piecework 1788
Time work 271
2975

Week ending March 4/22
Material 2.45
0305

Look up an attractive Calender for our phone owners + mark by distinctive mark dates they should come + get their records in Each month for a year

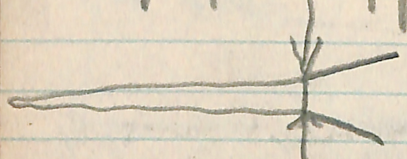
Take up matter of giving Each Club member after a while The Spel Record showing how Each Nation plays a tune Then with Compliments of Mr Z - as a service about

Keep at Chandler until he gets Exchange of Expensive type

Taper on big funnel 1/2" per foot of flare 6' 3/10 per foot

Length 37' 8" 1/8

Length of flare 4ft 7 3/4 inches



or dia increased 1/2" per ft

Freight on Chalk Cement works $2.20 to Orange.

Dont forget to penally arrange for minimum & Maximum block room accordless of by Rosa like result of Engineers work

Test by over selling boys - Down Table

Edison	1st	Mch 8/22
Brunswick	2	
Columbia	3	
Victor	4	

Purity in Dancing League adopts following measures per Min

Waltz 48 2 Step 54

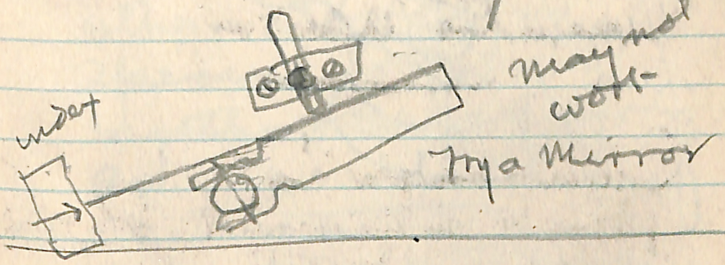
one Step 64 Fox Trot 40

Evening Mch 9/22

Buchanan about measuring Dia of Exhaust steam pipe Clear to sewer

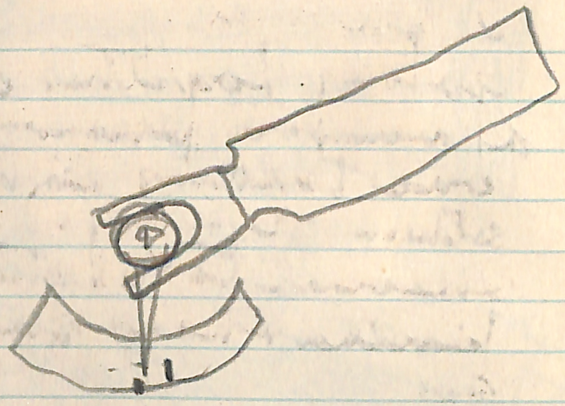
Campaign to print different blanks Rallys with Variations also four Reg with Variations to get the Smallest and surface from using a calculated Mandrils Exhaust to test - When I cannot hear any surface it will be satisfactory on a knocked Mandrel

drop for Console
first drop on Let down handle
When it will be Ok see Whalen
Can swivel it + make it Ok for
10 + 12" March 8/22



Hardy Look up price of Victor tone arm as they make it now is patented still Think I run out

Ask Hardy if late patent on setting Keyder



Walter Miller Track 3
blanks for me for test
for surfaces use good
wax + play Piano
at intervals like the other
ones you made

Theodor

5 phones
going together as
a musical phone
one talking to the
other - Arranged
special to Edna
together + keep for only
20

From Miss Chapin Mine
Ford Lumber Co.
Can furnish hard Lumber
or is going to put in Veneer
Mfg Mach -

If Warehouse money not Enough
Let Taxes Collected to run
the Govt be delayed 1 yr
& Scatter the time of Collection
Issue Currency to run the Govt
& then Collect the taxes
over a whole year &
Retire the Currency
This is doubtful
proposition

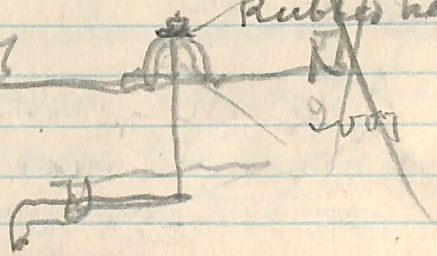
of the increase amount
of real Commodities
& investment indeed
the farmer gets no
interest: The Mechanic
& distributors gets
interest, hence the
farmer shorted and
pay interest on

Currency issued for his
products until he is
willing to sell & get
the Value he is
entitled to -
The Bankers Control
one Commodity to
wit gold they get
by inflation Large
interest on the
Commodity
The farmers Commodity
gets no interest

Note - Warehouse Commodity have an advantage of gold as a Commodity in the Warehouse as they cannot be drained out of the Country as Cheaply & quickly as gold & thus Combat the Currency but this is not very important with a Right system

Make a Recording Sound & Sounding disc for Each tone of piano by Edison

As the steamy surface of records must be very high think could be Cut out by Rubber



Shreaded Rubber hose for upholstery packing

Advertise Audio Gallery in Newspapers - few words

Get both ends of wave for Mulogh with 2 Edison Phonic Valves - This will more than double phone loudness -

Get 2 stage amplifier set & listened to at both dinner & auto Include Mulogh for Bell Telephone - put in Library

See Mulogh & find how Jones & Electric Co - Get Brooklyn & Bronx to

See Hardy & fix up further patent - Batteries not too low + not dry, regenerated with distd deep only

Patent treatment of Iron good test treatment

Folsom Make arms discs for Hardy 1½/100 Several layers Cu Ni High rate test -

Test Bradys repowder

Try + get a Negro Worker who knows how to place instrument + if possible a Leader

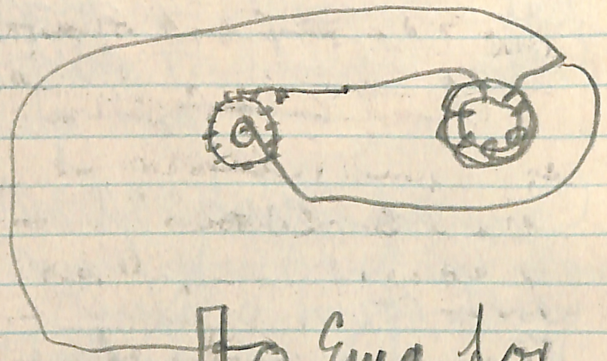
Try a Recorder with Multiplying coheed like Loud Phonograph Rawhide friction

Connect Emg Chalk with spear + Friends Have a spring fitting ment to get rid of grind -

Rig up old X ray wheel 1/16 close 1/16 Opening 1000 Rev + use Magnet + Compressed air to blow spark use

Ring of iron wire wound with 1 layer of 1/16 to 1/8 wire

~~Xmas~~ This will give 8000 per sec



To Emg for old Ether

~~Standing~~

Get a set up Can Turns

Push old Etheric Scientific American article search

Transactions Soc Tel Eng, Electricians & all the Electrical papers for that abridgment of Lord Kelvin — also Sylvanus Thompson — Phil Mag — also Beard articles in that medical Journal — Annals of Psychical Apparatus —

Dr — of testing Lab — Chicago
book radio Xpay —
Hunt up everything Electrical
photo apparatus Exhibited Paris

Make Recording app or change
old one for 12" Books
Drop may from 10 inch pr
Sections, Alter 40 thread
to 40 Rev in all changes
to left feed screw Specials
Repeat to go on Reg phono

Radio Engineer head phone
Station Numbered Each
Engr repairing Station he
is in — Head Engr knows
where Every check & Rebuild
is kept on his machine.
Could have train do it
by Name regards
with their greatest density of
traffic — Old Colony Valley
system —

Apl 20/1927

Blank Discs should be made
like new print process
Save steam + better Quality

Design Reg Cabinet Machine
for #100. & 75 Lot — See Burns

Make E reproducer for
Columbia Cheney —
Brunswick + several
other Machines

Electric Vehicle for Shop
Ford Runabout changed
over.

Busy Repairing attachment
work on Vic for demonstration
see if any yet

Since we have plenty power arrange as one man operates 12 pieces Connected V'd over by one Central Rod.

Keep at Automotive Varnishing Machines

Take up Semi auto Table for Pruden to reduce from 5 men to 1 man.

Keep Daily our process to stop alcoholic issues Room Spaced + Equal quantities Wood + Chalk or 60 Chlk 40 Wood & Cost the same

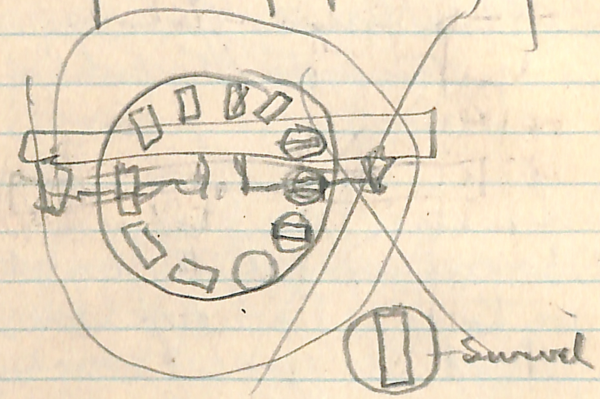
Take up with Blades/Letters + an Elec Shock Catalogue for General Distribution

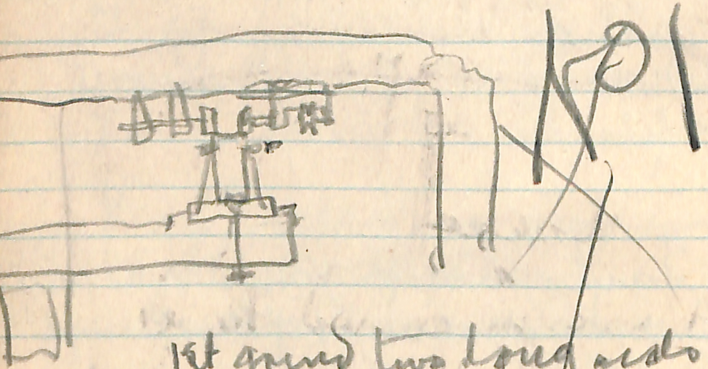
Dykeman Engraving Diamond Splints can't we take a lot of pics what we want & return Balmar American now agents Magnify 16 Diamonds & had most splints

Taylor to start Indianapolis Eq Exchange E & Vic across.

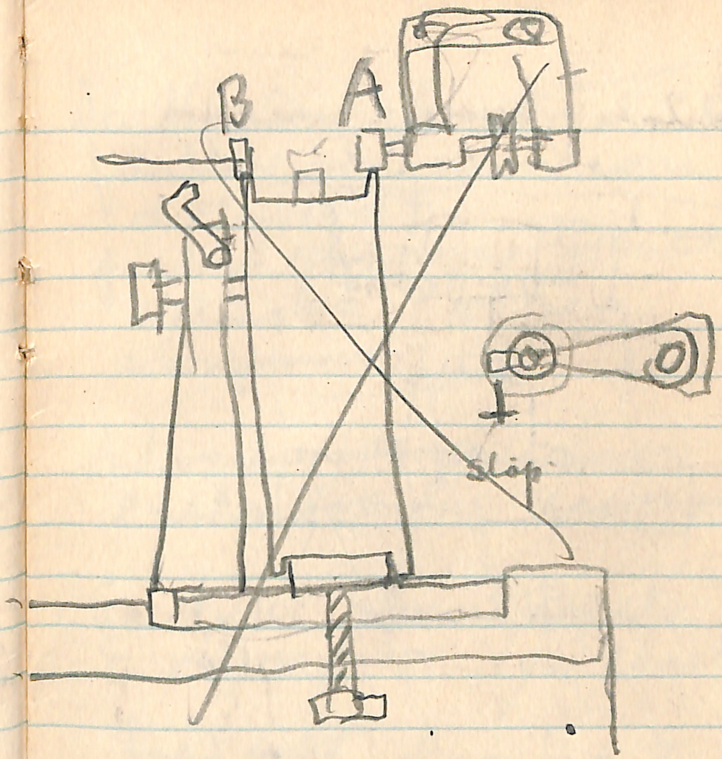
Woodfin stand existing w/ Indianapolis no Y underlined Kipp owns retail,

Scheme for opening battery Can by grinding





1st grind two long sides
then curved ground
Shortside - Disposable
wheel,
Remove + put in Vice
Running

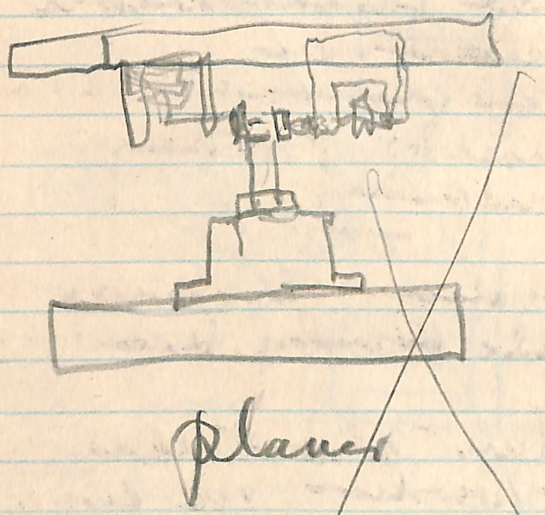


Holder

A rough grind B finish grind -
Cells sized + selected

A4 to A12 will go on same curved for base

No 2



should not Ni Element be loosened up to ~~get~~ ,
Clean joint going in acid

Cells Regenerated should not be Welded until they pass tests

Kathardy about extended further degeneration details -
patent glucose + all details P + neg
& Dipping

Advertising Question
Cells Daily Mirror

See Luker about Spel
E vaporiser Vic clubs.

Fred Ott discuss E
Repeater for
Cheney Sonora
Pathe Columbia
Star - Imperial &
Mail order houses

see about Cabinets for Loud machines & also patent situation & de models for mfg —

Take up Standby Insurance plan with Folsom —

see Riggs dept merchandise —

Wadcraft to stop sending Mail to Howard

Allington to publish a daily report sending out mail reports to me

Send copy of Letter to Babson + add note if R Bank accepts 50% mortgage Receipts & issues 7% Bank notes without renewal as no risk & they want this kind as basis for descendum Consol trade —

Put up Warranty Machine to Simpson thru men & others Otis Case off on Repairs

Wynne + Hopper to make test Bed Model Record They have to put in Safe Each

Start formula book

Use of thermal Resins being made

Wedge furnace.

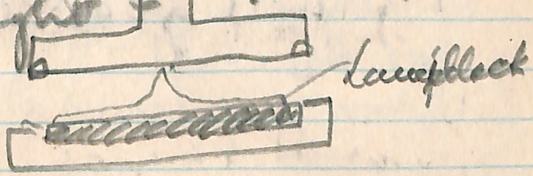
Changing all pressures to new style.

Patent Removing Lithia Potash etc from Feldspar Slate, Pegmatite etc Spodumen deposits.
Process patented & detail patent

Push Hanley on Opal

Mfg machinery & test lot of Cells -

As a slight pressure on a Lampblack button in phone destroys its conductivity it would be best to increase the area of button so, while total pressure is great the pressure per square Millimeter would be very light + we could get constant adjustment + slight increase of total pressure would be large Thus would permit use of our thorough Reputed Weight +



a Miner brings his Crude Gold to the Mint which purifies & grades it for which he receives a gold Certificate. He pays no interest. The farmer brings his wheat to the Warehouse which cleans and grades it. he is given a Certificate which permits him to go to a bank and get ½ of the value of his wheat in F R Currency He also like the Miner pays no interest.

Add to Bank plan for Convenience The Certificate can be issued in fractions Say 50 Bush Wheat or 100 Bush like Stock

Preference given to farmers but interest waived & applied for storage - When registered at Warehouse

get new book "The Work of the Stock Exchange" By J Edward Meeker NY Ronald Press Co

Dalby - Varnish ground with China clay or Rentoul & daubed on Brick on faces of Blocks with Rabbit & Linseed Coarse ground 20/ton Brick

Warehouses Broadway grading prices at Every principal Market Home & abroad daily

Store only crude Rice not polished Rice this to be Milling Operation

Warehouse certificates are a
type of bonds & Mortgages
all interchangeable &
Some Capable of being
translated into Currency
but not permanently
Currency

Get Copy of Fed Reg act
& amendments since
Made & administrative
Rules & regulations

How the farmer make
more money not by
increasing price
but higher efficiency
& less toll from
farmer to Consumer

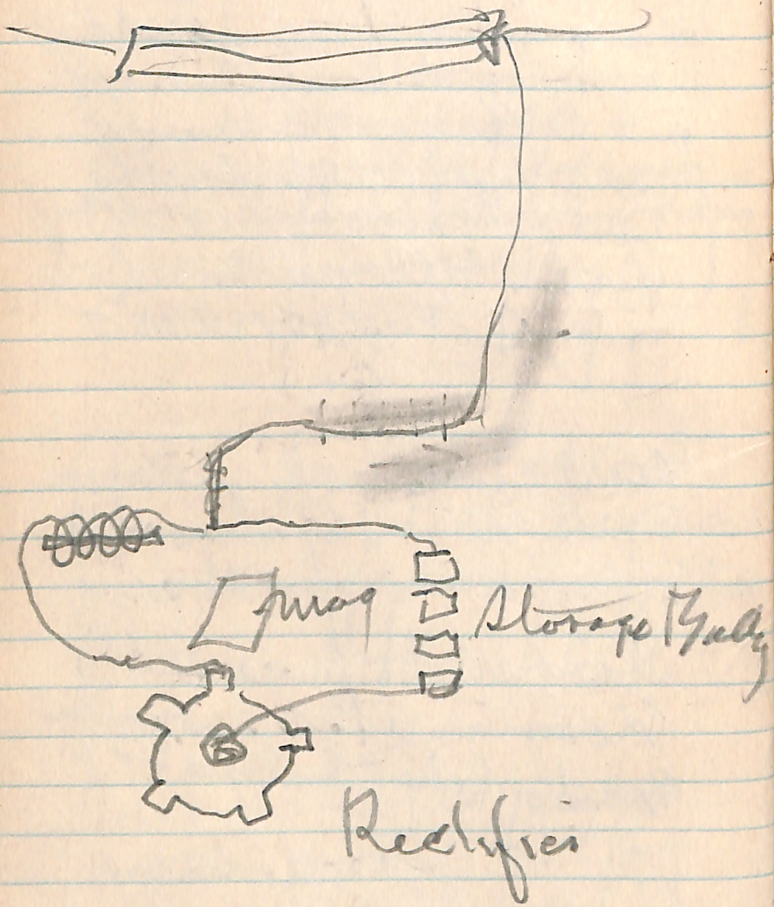
Apl 22/22

Work out scheme trade
in cheap Victor & Col r
put in Edison Machine
for cheap Made to
get all tunes back
using all parts of
Vict Col

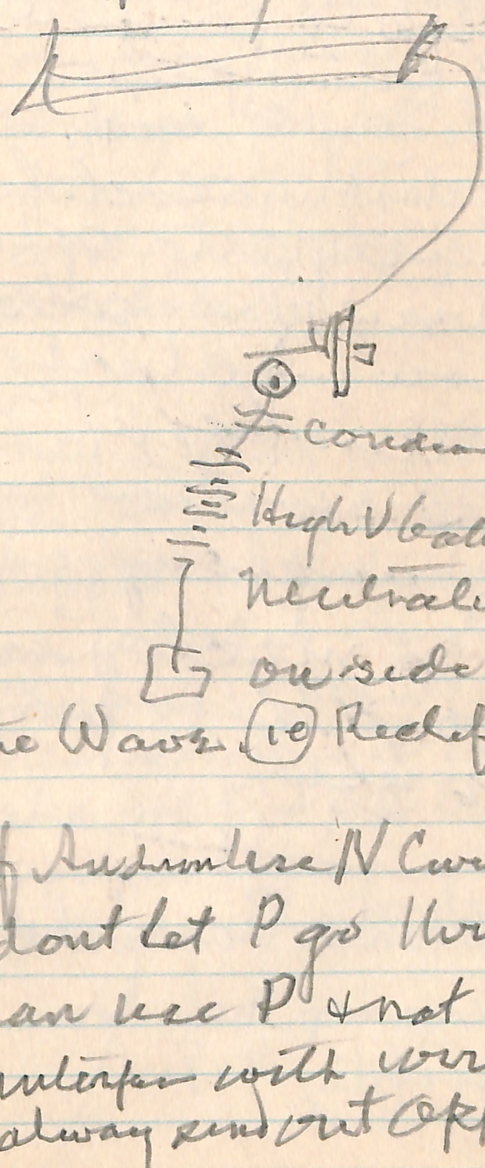
See if can't get a liquid from
Crude oil or otherwise with
higher boiling point than
Straw oil to mix with
Rosin to make properties
exactly like Shellac

Rig up bet X-ray
break wheel &
wave Radio

April 22 1922



April 22/92



If Antenna N Current
+ don't let P go Down
Can use P + not
interfere with wireless
always send out CQP words

Randolph Co farmers assn
Each farmer pays in
$1, per month, Assn buys
Insecticides and Each farmer
is intitled to Operate
& draws lots when
planting starts
Number of Trucks
or Tractors proportioned to
Acres ploughed
or so much per
100 Acres paid
monthly —

National Banks should
keep up their losses &
profits, ! !

Victor Chubs - Reper Loaned
but any time have
privilege buy at 6.50
is two latest Dance
Records with pep put
in Each loop

If only 1 sheet is taken
from Drum then stripped
& dipped in Solenn
then washed & solution
of Nitrate of Silver
metallic Surface would
take all the Se out
by rapid changing &
filtering of solution

What is wanted is very low prices with an increase in the Margin of profit — Low wages with Continuance of Employment + more Margin or increased buying power —

Chloride Potassium has
10.81% K_2O

Sulphate Potash has
12.63% K_2O - Sells 1st unit
~~Lower~~ Higher
~~Lower~~ sells 65 Cents unit
but what does it mean
K_2O base or what,

Orange

1309 Houses visited in Orange
663 own some kind of a phonograph

646 Do not own phonograph

Victor has	2	61%	404
Edison Disc		12 "	83
Sonora		7 "	48
Columbia		4 "	25
Brunswick	—	3 "	19
Aolean		3 "	18
Pathe		1 "	6
all others		8	50
Edison Amberola		1	10

Test Victor Edison
Reg Rec & Arom
Records + OK
over

Inspectors
Baake Planing
Fargey Powder Blanks
Sanborn #24 all around inspector
McDonald Printing Process 24 Bldg
Bissell E 5 Bat
O'L Kilborn E 5 B Extra inspector
Osborn Phono Woks
A E Tuttle General Inspec Employment
Burke Investigator
Neill Tested

Testers for Circulating Record #21
Aron Thrall Manning McAllister
Carter

Taylor has ~~20~~ 19 men.
Woodfin 15 men: 10 Selling
1 on Shift records 1 Victor Club
2 in office + Rosenzweig selling
Expert Outside

for every Ford 2 men
6 Chippendales are
required 3 per man

Pavilion - Hereafter give
officials only discount
but good grade —

Agreement Book
Chairman Anderson

Example: 100 Bushels of Wheat at $1.00 a bushel

Farmer gets 50% loan from Warehouse, say $50

Bank loans Farmer	80%	on Equity = $40 -	Total	received by Farmer	$90 - Banks margin 20%
" "	75%	" " = $37.50	"	" "	$87.50 " " 25%
" "	70%	" " = $35.00	"	" "	$85.00 " " 30%
" "	65%	" " = $32.50	"	" "	$82.50 " " 35%
" "	60%	" " = $30.00	"	" "	$80.00 " " 40%

Adv in box 72 box =
announcing last new Record
to be heard Edison shop
6, Calculate if OK

Have permanent man
at Repp begin
Harris method
doping records
cleaning clean
previously

test records in a
box board out 5
months for good
average ask Aron
shielded ches

Murder Rue Morgue
15000 words

7.5 mm 12" disc — 1 face
15.0 " both sides —
½ Speed 30 minutes
3 times number of
Records 45 mak
90 min 1½ hours
Murder cut to 9000
words 1 Disc —
2 sides.

Sold

358
172
158
78
76
75
55
52
36
34
32
22
1148

Up to June 1 1922

% Sales 1148 Records sold in
Orange 4 months Jany to May 1

/92				%
	Dance	31.10%	24	14.9
	Bands	15	25	7
	Heart	13.76	58	2.72
	Orchestra	6.79	20	4.00
	Odds religious, foreign language, Songs not in other classes	6.62	36	2.00
	Comic	6.53	10	7.5
	Vaudeville	4.79	8	7.0
	Piano + Zithers	4.52	4	13.00
	Banjo Cornet + Saxaphone	3.13	7	10.44
	Opera	2.96	29	1.17
	Marimba	2.87	5	0.4
	Violin Cello	1.91	14	1.57

Number in box

14 Fords

Labor	162	24
Material	15	44
gas	2/24	2/3

Cost to Operate 2894
Rent 750
Insurance 466
Total - $41.10

Chemical Tolet Paper

Most delicate test dissolved Copper
1½ grms Each Alpha Naphtalo Paraphenylendiamen & NaOH, dissolved in 100 parts redistilled water its diluted 100 to 1 to 3cc of sol to be tested add ½cc of above + heat to Boiling - Red or Violet Color given 0.000000005 % detected

Also N + Dimethyl p-phenylene diamine

Chem Tolet Paper
2 grms phenophthalein
20 grms CP KOH.
in 100 cc pure water
will give a pink Color also in One part Copper 100 Million parts water.

Feby 1 To June 16
Orange Broadfan sales

16 Chip 11.65%
20 Shearlon 14.6%
89 Hepplewhite 65
6 Chalalets 4.30
1 Wm + Mupirite
1 Wm + M Canada
4 C 450 —

population 106 000

Orange E Orange W Orange
S Orange

4 Months Sales Records 6 Clubs
96 each.
Each record of the 240 averaged following sales

Dance	15.6
Marimba band	14.6
Hawaiian	10.
Comic Talking	7.6
Banjo	7.3
Band	6.1
Comic Singing	6.1
Zither	6
Venetian Trio	5.5
Piano	5.5
Orchestra	3.14
Religious	2.78
Heart Songs	2.68
Violin	2.42
Foreign dance songs	1.45
Opera	1.15
Cello	0.50

240 in 1st year Orange 60x9

Sales

	number box	Sales	% of sales	Sales per example
Dance	23	362	31.4	15 7/8
Piano	3	45	3.9	15
Hawaiian	2	20	1.7	10
Xylophone	3	23	1.9	7.66
Comic Talk	5	38	3.2	7.6
Banjo	3	22	1.9	7.3
Venetian Trio	7	47	4.1	6.71
Band	23	144	12.6	6 26
Comic Singing	6	37	3.2	6.1
Cornet	4	24	2.1	6
Whistling	1	6	.052	6
Marimba	2	9	.77	4.5
Orchestra	22	86	7.46	3.9
Religious	14	39	3.37	2.79
Heart Songs	71	187	16.2	2.60
Violin	8	17	1.46	2.12
Opera	30	33	2.87	1.1
Foreign Language Songs	9	9	.77	1.0
Cello	4	4	.24	1.0
	240	1152		

325 Million Meters
or waves 1 second.

1 Meter wave length
requires 325 Million
Vibrations per second
10 Meter, 32½ Million sec

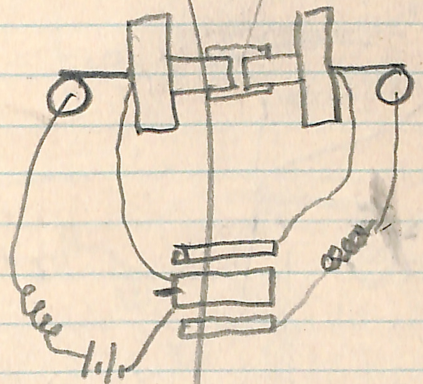
Ford 48 plate cell - Too thin
asbestos -

200 amp discharge 30 seconds
reaches 4 Volts which
is generally OK for starting

150 amp rate 150 seconds 2½
100 " 420 " 7 min
50 " 1320 " 22 min

50 Equals 150 amp rate on
A4 -

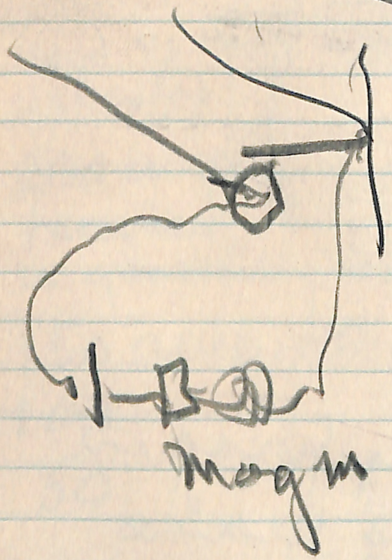
5 ft Column Carbon with
peroxides 1½ gal per
sq ft 24 hour
or 2.5 gallons
24 hours of Column



Jas Hanley proper
stuff to make
porosity —
Asbestos

Woodfin doors/Cabs
include Victor grown
change galperate

Dif dies cost def
Machs

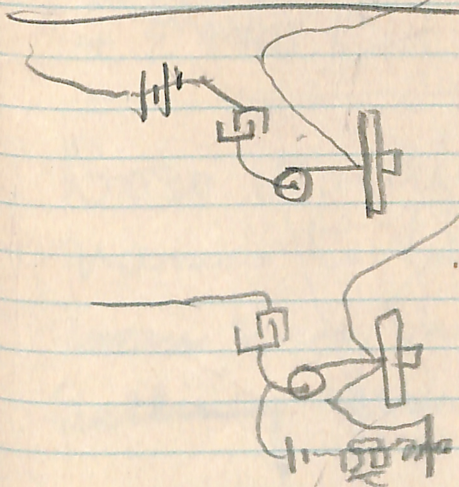


J

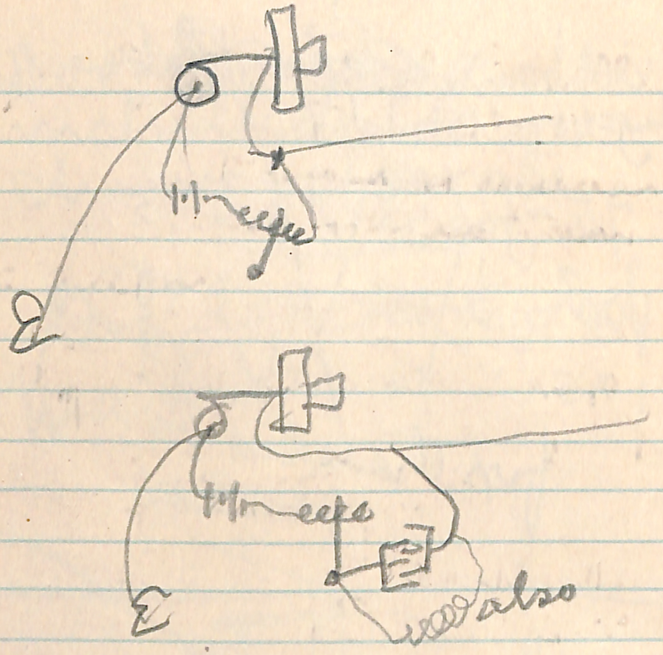
#60. bench
J-40 - Dealer 85

75 - Job 45 - Dealer 40
100 Job 50 - " 40
125 " 50

wrong
for the cabs



all alums



In New England + NY
Establish in towns record
dealers ~~not~~ in towns
without dealers —
Then in these towns put 2
men in territorial setting
2 gen men N + S NY

do it in New England
Man in Me NH + Vt
~~Ea~~ + West Mass RI
+ E + W Con

Does Woodfin give
names to Vic Clark
~~Income~~ men that
Selling you find

When Vanderwoort goes + takes charge he gets minute written instructions what to do + what not to do —

Ignite the Asbestos and soak in Rubber Lum Cement see if it toughens it —

Perhaps new Asbestos without starch will not be so brittle after ignition —

Tremolite not affected by heat. $CaMg(SiO_3)_4$

Actinolite $Ca(MgFe)_3(SiO_3)_4$

Crocidolite (Blue) $NaFe'''(SiO_3)_2(Fe''SiO_3)_3$

Serpentine (Canada)

$H_4(Mg\ \ )(SiO_3)_2$

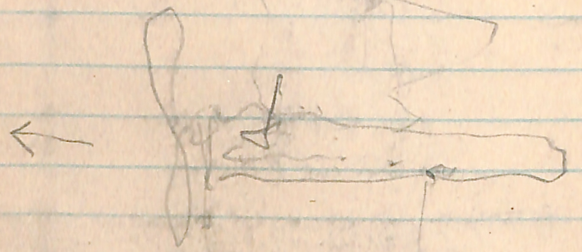
$H_4Mg_3Si_2O_9$

Schmucks will buy Serpentine asbestos with Lime like K_2O process on Feldspar 30 days or more at 180 —

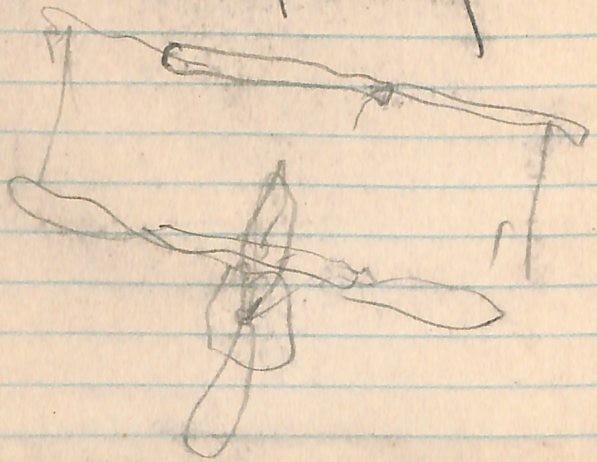
1000 ft sec

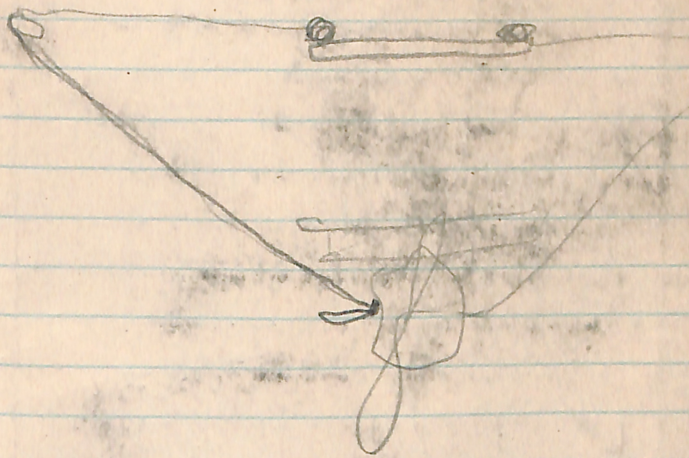
180,000 lbs - stopped over 1 ft
in 1 sec. 1

1 lb 1 ft. [1 ft. 1 lb pressure



1- Frozen propeller
2 Drop Motor
3 " Throw up sheeting





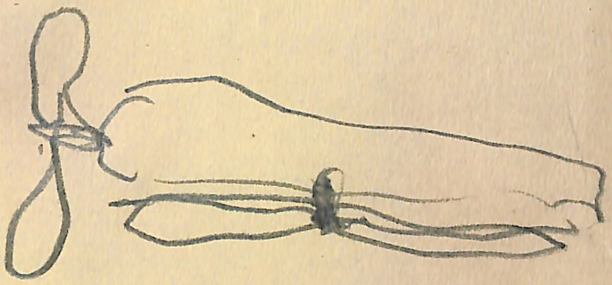
1000 ft sec

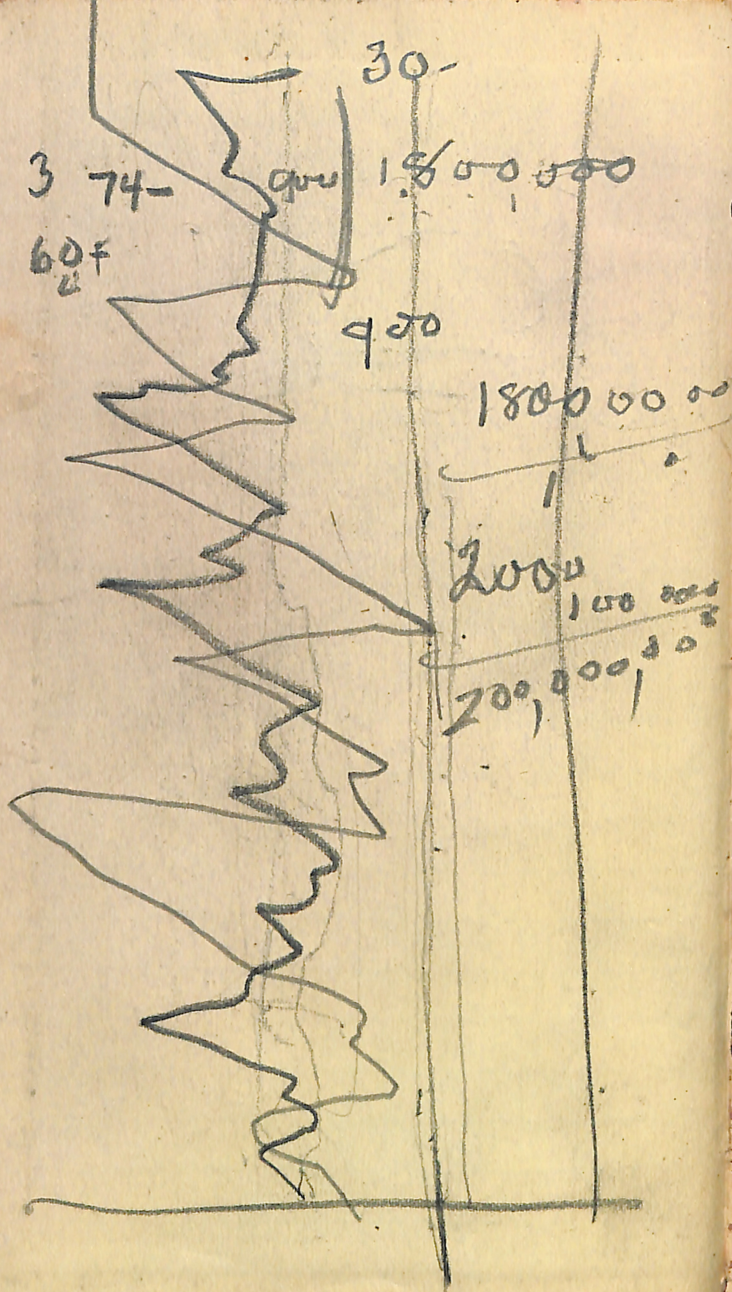
180,000 lbs - stapled

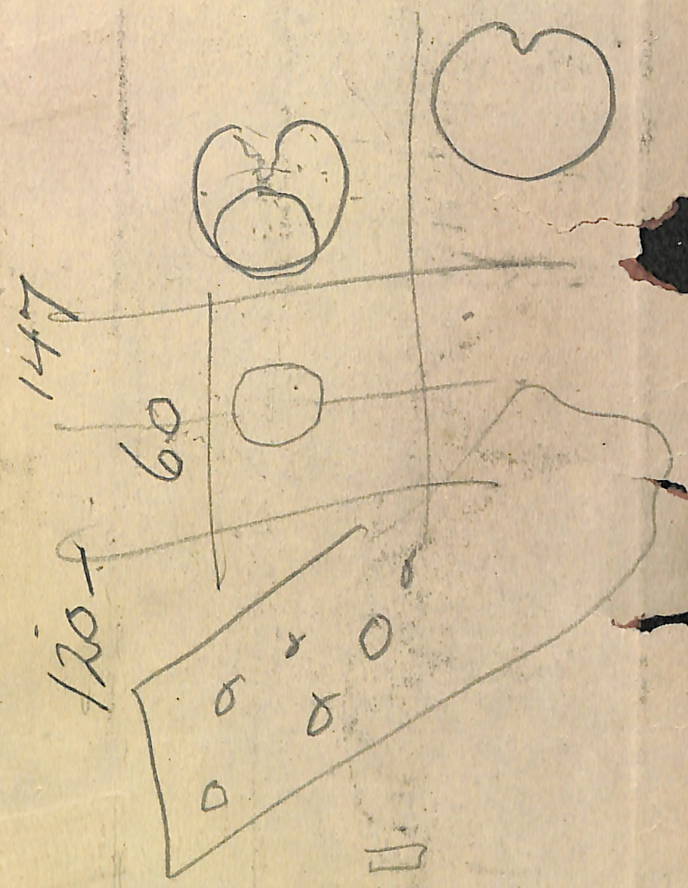
m 1 sec. 1

1 lb 1 ft.

1-
2
3




30-
3 74-
60 f
1800000
400
1800000000
2000
100
200,000,000


147
60
120